

### Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

#### **Listing of Claims:**

We claim:

Claims 1-18. (Canceled)

Claim 19. (Currently Amended) ~~The method of claim 17, A method for the production of a pig that lacks any expression of functional alpha-1,3 galactosyltransferase ( $\alpha$ -1,3 GT) comprising: breeding a male pig heterozygous for an inactivation of the alpha-1,3 GT gene with a female pig heterozygous for an inactivation of the  $\alpha$ -1,3 GT gene,~~ wherein one or both pigs are heterozygous due to the presence of a point mutation in an allele of the  ~~$\alpha$ -1,3 GT alpha-1,3-GT gene,~~ wherein the point mutation is a T-to-G point mutation at the second base of exon 9 of the  $\alpha$ -1,3 GT gene or a point mutation induced or produced by a genetic modification in the  $\alpha$ -1,3 GT gene.

Claim 20. (Currently Amended) The method of claim 19, wherein the point mutation is a T-to-G point mutation at the second base of exon 9 of the  ~~$\alpha$ -1,3 GT alpha-1,3-GT gene.~~

Claim 21. (Currently Amended) The method of claim ~~17~~ 19, wherein a male pig that contains a T-to-G point mutation at the second base of exon 9 of the  ~~$\alpha$ -1,3 GT alpha-1,3-GT gene~~ is bred with a female pig that contains a T-to-G point mutation at the second base of exon 9 of the  $\alpha$ -1,3 GT-alpha-1,3-GT gene.

Claims 22 - 42. (Canceled)

Claim 43. (Currently Amended) A non-naturally occurring pig produced according to the method of claim ~~17, 18, 19, 20, or 21,~~ 60 or 66.

Claims 44-47. (Canceled)

Claim 48. (Currently Amended) A cell, tissue, or organ obtained from the pig of claim 43, ~~for use as an in vivo or ex vivo supplement or replacement for recipient cells, tissues, or organs.~~

Claims 49-59. (Canceled)

Claim 60. (Currently Amended) The method of claim ~~19, 17~~ wherein at least one of the male or female pigs comprises at least one allele of an  $\alpha$ -1,3 GT alpha-1,3-GT gene that is inactivated via a genetic targeting event.

Claim 61. (Canceled)

Claim 62. (Currently Amended) The cell, tissue or organ of claim 48 wherein at least one allele

of an  $\alpha$ -1,3 GT ~~alpha-1,3-GT~~ gene is inactivated via a genetic targeting event.

Claims 63-65. (Canceled)

Claim 66. (New) The method of claim 19, further comprising breeding together the pigs that lack any expression of functional  $\alpha$ -1,3 GT to produce a herd of pigs that lack any expression of functional  $\alpha$ -1,3 GT.